



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 20 84 43 01

Classification of the application (IPC):
H01L 23/49, H01L 23/495, H01L 23/367, H01L 21/48, H01L 21/60

Technical fields searched (IPC):
H01L

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X Y	US 2004238923 A1 (LEE TE-HAW [TW] ET AL) 02 December 2004 (2004-12-02) * paragraphs [0028] - [0034]; figures 6A,7A *	1, 2, 4, 10 7-9
X	EP 3255587 A1 (NXP BV [NL]) 13 December 2017 (2017-12-13) * paragraphs [0031] - [0039]; figures 1,4 *	1-4, 6, 10
X	WO 2008081630 A1 (SANYO ELECTRIC CO [JP]; SANYO SEMICONDUCTOR CO LTD [JP] ET AL.) 10 July 2008 (2008-07-10) * paragraphs [0006] - [0009], [0076]; figures 1,2,10,14,15 *	1-5, 10
Y	CN 103606539 A (HUATIAN TECH XI AN CO LTD) 26 February 2014 (2014-02-26) * figure 7 *	7
Y A	US 2016064310 A1 (SIRINORAKUL SARAVUTH [TH] ET AL) 03 March 2016 (2016-03-03) * paragraph [0029]; figure 1.3 *	8, 9 1
A	US 5990554 A (GOLUBIC THEODORE R [US] ET AL) 23 November 1999 (1999-11-23) * the whole document *	1, 8, 9

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 26 July 2023	Examiner Zeisler, Peter
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CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 26-07-2023
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